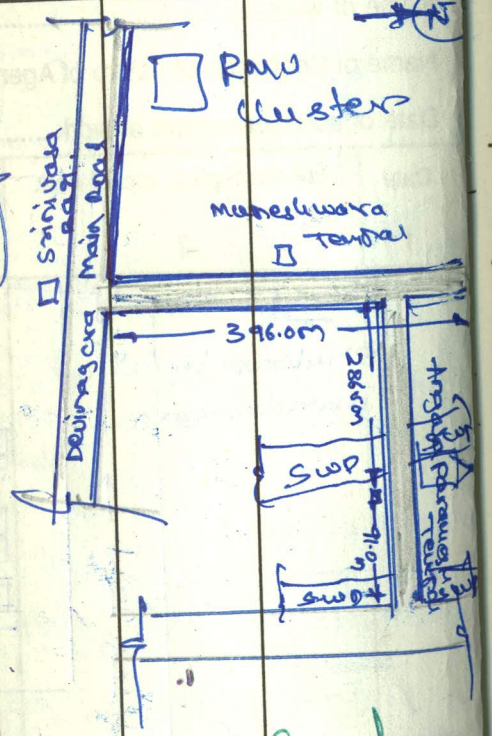
Depth 6	Contents 7	Reference to last Measurement 8



Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

Work order:- EE/BTP/KRIDL/WO/260/12-13 dt. 21.01.13

Job code :- 008-12-0000-85

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193311

Serial No. Second & final bill

Name of work. Improvement of drain cum asphalting to main roads & cross roads in ward no. 09 Kodigehalli sub division. From To

Name of Contractor or nature of Agency. Technical manager (west) KRIDL Bangalore

Date of commencement of work.

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(1)	Earth work excavation by manual means in ordinary soil including for average horizontal throw upto 2 meter and an average lift up to one m. excavated surface leveled and sides neatly dressed to lines, earth to be leveled at complete as per the specification.						
	Qty paid vide 1st RA bill recorded in PDO 19330/of this MB is ...					801.00	cum

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty B/F from PND 193362 of this MB/R ...					123.28 cum	
	total Qty					924.28 cum	
	Deduct paid Qty					- 801.00	
	Net Qty					123.28 cum	
	@ Rs 81.00/cum						9,986=00
(2)	Removing of B.S slabs of drain with stacking						
	Qty paid vide 1st R/A Bill recorded in PND 193301/2 of this MB/R ...					5065.20 sqm	
	Qty B/F from PND 193363 of this MB ...					758.06 sqm	
	Total Qty					5823.26 sqm	

Serial No.....

Name of work.....

Name of Contractor of nature

Date of commencement of w

Date	Full description, etc, o
1	2
(3)	Re fixing and poli
	Qty paid vide

OOK

adth 5	Depth 6	Contents 7	Reference to last Measurement 8
		123.28 cum	
		924.28 cum	
		801.00	
		123.28 cum	
			9,986=00
		5065.20 sqm	
		758.00 sqm	
		5823.20 sqm	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 193312

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	deduct		paid qty		(-)	5065.20	
					Net qty	758.00 sqm	
			@ Rs	44.47 / sqm			33,708=00
(3)	Pointing of stone slabs of drain and pointing in CM(1:3) cut com						
	qty paid vide 1st Rt Bill recorded in P.W 193301/2 if --					5065.20 sqm	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty B/F from P.No 19		3363/2	of this work		758.06 Sqm	
				total qty		5823.26 Sqm	
				deduct paid qty		5065.20	
				∴ Net qty		758.00 Sqm	
	@ Rs 6300/Sqm						47,754=00
4)	Earth work excavation and forming in embankment by removal means in ordinary soil with initial lead upto 1 km & lift of 1.5 m including breaking of clods com pacting to required line and level for						

M.A

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	3
	mity cost comple	
	qty paid in 1st RA Bill no	
	Qty B/F from P.No	
	ded	

BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
+ this work		758.06 Sqm	
total Qty		5823.26 Sqm	
d Qty		5065.20	
∴ Net Qty		758.00 Sqm	
00/Sqm			47,754=00
end forming ing			
wearing in ordinary			
vosto 15 cm of Litt			
ssing of costs com			
ne and level for			

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193313

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	only cut complete as per specification.						
	Qty paid in 1st RA Bill recorded in PWD 193302 of this MB in ...					4465.00 Cum	
	Qty B/F from PWD 193365 of this MB in ..					608.09 Cum	
					Total Qty	5073.09 Cum	
					Deduct paid Qty	- 4465.00	
					∴ Net Qty	608.09 Cum	
		Qty	112.32	/ Cum			68,300=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5)	Dismantling cement concrete flooring or PCC work including removing & conveying of the debries to room as at complete						
	Qty paid in 1st RA bill recorded in P.NO 193302/1 of this MB is -					375.00	
	Qty B/F from P.NO 193365/2 of this MBik -					78.37	
	total Qty					453.37 sqm	
	Deduct paid Qty					375.00	
	∴ Net Qty					78.37 sqm	
	Qty 38.88/sqm						3,047=00

Serial No.....

Name of work.....

Name of Contractor of nature of Agency....

Date of commencement of work.....

Date	Full description, etc, of work	Nur
1	2	
6)	providing granite roughly dressed excluding fixing	
	Qty paid in 1st RA bill re	
	Qty B/F from P.NO 19	

BOOK

ons		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
e flooring or pcc conveying of the ete			
0 193302/2 of e WB in -		375.00	
of this MB is -		78.37	
total Qty		453.37 Sqm	
aid Qty		375.00	
. Net Qty		78.37 Sqm	
38/Sqm			3,047=00

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193314

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	providing granite slabs of selected quality roughly dressed & fixed in con (1:6) in cuding fixing cost complete.						
	Qty paid in 1st RA bill recorded in P.WO 193302/2 is..					1883.30	
	Qty B/F from P.W. 14336 of this WB is..					189.67 Sqm	
					total Qty	2072.97	
					deduct paid Qty (-)	1883.30	
					∴ Net Qty	189.67 Sqm	
					@ Rs 315.36/Sqm		59,824=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7) providing and laying in position PCC of mix M.7.5 with OPC cement @ 180 kg with 40 mm down size graded granite material from approved quarries @ 0.87 cum mixed in chain mixed concrete laid in layers not exceeding 15 cms thick and compacted on foundation & plinth etc complete.						
	Qty B/F from P.WD 193368/2 of this MB in --					1.52 cum	
	@ Rs 3884.76/cum					5905=00	
	8) providing and laying in position RCC of nominal mix 1:1½:3 with stone of down						

M.A.R.

Meas

Serial No.....

Name of work.....Fro

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	size graded granite Concrete laid in l thick vibrated for thin plinth and including attendance after the specif	
	Qty B/F from P.WD	

BOOK

ns		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
ition	PCC of mix		
80 kg	with 40 mm		
ite	material		
een	mixed in		
laid	in layers of		
d compacted			
complete.			
5/2 of this MB in --	1.52 cum		
84.76/cum		5905=00	
position: RCC of			
with hand down			

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 193315

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Size graded granite metal machine mixed Concrete laid in layers not exceeding 15cm thick vibrated for all works in foundation plinth and ground floor slabs including attendance & plastering etc complete as per the specification						
	Qty b/f from D.NO 193367/2 of this MB in.					6.36 cum	
						33,320=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last 'Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	9) providing and removing centering shuttering strutting propping etc and removal of form work for vertical surface steel of wall at any height and complete as per the specification						
	Qty B/F from P. NO 193368 of this MBir.					30.36 Sqm	
			C/S			244.08 Sqm	7445=00
	10) providing TMT steel reinforcement for RCC work including straightening cutting bending hooking placing in position lapping or welding wherever require tying with						

M.A

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numb
1	2	3
	Binding wire and member complet as per specifi	
	Qty B/F from P.N	
	C	
	11) scarifying for surface dressing	

OOK

adth 5	Depth 6	Contents 7	Reference to last Measurement 8
tering shuttering			
removal of form			
e steel of wall			
plete as per			
this MB i.e.		30.36 Sqm	
4.08/Sqm			7445=00
removed for			
dplastering cutting			
position tapping			
e fixing wiring			

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193316

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	binding wire and securing to the adjoining member complete as per design etc as per specification						
	Qty b/f - from PWD 193369 of this MB					5.90 Qtl	
	CMS		7323.48/Qtl				43,208=00
11)	scarifying for bituminous surface or surface dressing on premix carpet in						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cluding picking ver scarified material sta- cing & old serviceable material with- ated at 100 meters by manual mea- including cost of all labour charges et complete as per specification						
	Qty paid vide 11th RA bill recorded in M.B. 193303 at page no 16 to - 1680=00 Cu.m						
	present bill						Nil
12)	providing laying spreading and compacting gra- ded stone aggregate to wet mix macadam spec including pre mixing the material wit water at one in mechanical mix plant						

Serial No.:.....

Name of work.....

Name of Contractor of natur

Date of commencement of

Date	Full description, etc,
1	2
	carriage o water prev prepared the spec
	Qty paid vide 1
	Qty B/F from

OK

th	Depth 6	Contents 7	Reference to last Measurement 8
		materials sta	
		materials with	
		required	
		or charges at	
		stor	
		-no 193303	
		MB 1x - 1680=00 Cu	
			Nil
		nd concreting grad	
		et mix machine	
		the material wh	
		ne mix plant	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193317

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	carriage of mixed material laid in uniform layer after power in sub base / base course on well prepared surface at complete as per the specification.						
	Qty paid vide 1st RA bill recorded in PNO 193303/2 of this MB 1x --					2467.95	
	Qty B/F from P.NO 193370/1 of this MB 1x --					378.93	
					total Qty	2846.90 Cum	
					Deduct paid Qty (-)	2467.95	
					∴ Net Qty	378.90 Cum	
	@ Rs 1059.43/Cum						4,01,437.70

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7.	8
13)	providing and applying primer coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.6 kg/sq.m complete as per specification.						
	Qty paid vide 1st RA bill recorded in PWD 193304 of this MB is:-					13165=00	
	Qty B/F from P-WD 193372 of this MB is:-					1998.18	
	total Qty					15163.18 Sqm	
	deduct paid Qty					13165=00	
	∴ net Qty					1998.18 Sqm	
	Qty 39.64/Sqm						79,208=00

Serial No.....

Name of work.....

Name of Contractor of nature of Agenc

Date of commencement of work.....

Date	Full description, etc, of work
1	2
14)	providing and lay 100-120 mm bate average out pu crushed aggr premixed with of mix and 2 mix to cover stretc pave

OOK

adth 5	Depth 6	Contents 7	Reference to last Measurement 8
ver coat with			
prepared sur			
velling clearin			
aging primer			
d complete			
WO 193304		13165=00	
ilems i.			
ir WO ie.		1998.18	
		15163.18 Sqm	
d Qty		13165=00	
		1998.18 Sqm	
. not Qty			
64/Sqm		79,208=00	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 193318

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
14	Providing and laying SDBC of 25 mm thick with 100-120 TAN bitumen type HMD producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder @ 5% of mix and fiber transporting the mix to work site laying with a hydro-static paver finisher with sensor control						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	to required grade and level ect. complete as per the specification						
	Qty paid in 1st RA bill recorded in P.NO. 193309/2 of this MB ...					329.13 cum.	
		1	30.00	$\frac{6.8+6.4}{2}$	0.025	4.95	
		1	30.00	$\frac{6.4+5.8}{2}$	0.025	4.58	
		1	30.00	$\frac{5.8+5.6}{2}$	0.025	4.28	
		1	30.00	$\frac{5.6+6.0}{2}$	0.025	4.35	
		1	8.00	$\frac{6.0+6.3}{2}$	0.025	1.23	
		1	30.00	$\frac{5.5+6.0}{2}$	0.025	4.31	
		1	30.00	$\frac{6.0+5.6}{2}$	0.025	4.35	
		1	25.80	$\frac{5.6+7.6}{2}$	0.015	4.26	

Serial No.....

Name of work.....

Name of Contractor of nature of A

Date of commencement of work.

Date	Full description, etc, of wor
1	2

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
d level ect. complek				
cation				
orded in P.NO. 193309/2				
of this MB ...			329.13 cum.	
30.00	6.8+6.4 / 2	0.025	4.95	
30.00	6.4+5.8 / 2	0.025	4.58	
30.00	5.8+5.6 / 2	0.025	4.28	
30.00	5.6+6.0 / 2	0.025	4.35	
8.00	6.0+6.3 / 2	0.025	1.23	
30.00	5.5+6.0 / 2	0.025	4.31	
30.00	6.0+5.6 / 2	0.025	4.35	
25.80	5.6+7.6 / 2	0.025	4.26	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193319

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	18.30	5.0+5.2 / 2	0.025	2.33	
		1	6.20	4.8+4.9 / 2	0.025	0.75	
		1	30.00	5.4+5.3 / 2	0.025	4.01	
		1	30.00	5.3+5.0 / 2	0.025	3.86	
		1	30.00	5.0+4.7 / 2	0.025	3.56	
		1	28.00	4.5+4.3 / 2	0.025	3.08	M.B. (Pg-D)
				total qty		379.03	

CC FC
28/6/2013

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			total Qty			379.03	
			deduct paid qty		=	329.13	
			∴ Net Qty			49.90 cum	
			@ Rs 8829.00/cum				4,40,567=00
	15) Road marking compound with Bituminous surface by reflectorising per sqm meter as per the specification. with hot applied thermoplastic Reflectorising glass beads of 2.5 mm thick including glass beads at 250 gms complete						
		2	323.0	0.1	—	64.60	
		2	86.0	0.1	—	17.20	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numbe
1	2	3

BOOK

ns Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
tal Qty		379.03	
Qty	–	329.13	
∴ Net Qty		49.90 cum	
8829.00/cum			4,40,567=00
plied thermoplastic			
ting glass beads on			
– mm thick inclusive			
beads at 250 gm			
mplete as per			
0.1	–	64.60	
0.1	–	17.20	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193320

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	73.0	0.1	–	14.60	
		2	63.0	0.1	–	12.60	
		2	66.0	0.1	–	13.20	
		2	56.0	0.1	–	11.20	
		2	74.0	0.1	–	14.80	
		2	88.0	0.1	–	17.60	
		2	209.0	0.1	–	41.80	
		2	126	0.1	–	25.20	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	1280	0.1	—	25.60	
		2	60.0	0.1	—	12.00	
		2	195.0	0.1	—	39.00	
		2	396.0	0.1	—	79.20	
		2	285.0	0.1	—	57.00	
		2	15.0	0.1	—	3.00	
		2	91.0	0.1	—	18.20	
		2	128.0	0.1	—	25.60	
		2	86.0	0.1	—	17.20	
		2	118.0	0.1	—	23.60	
						533.20 sqm	
	Qty limited to		484.00 sqm				
			@ Rs	429.84/sqm			2,08,043.20

Serial No.....

Name of work.....

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work
1	2
16	providing and ... re-cast in ... effect of salt ... selectors ... Surface by ... & Gomm of ... to specifica...

T BOOK

sions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
0.1	—	25.60	
0.1	—	12.00	
0.1	—	39.00	
0.1	—	49.20	
0.1	—	57.00	
0.1	—	3.00	
0.1	—	18.20	
0.1	—	25.60	
0.1	—	17.20	
0.1	—	23.60	
		533.20 sqm.	
00 sqm			
429.84/sqm			2,08,043:00

crack deep

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 193321

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
16	providing and fixing of road stud 100x100mm die-cast in aluminium resistant to corrosion effect of salt and grit fitted with lenses reflectors installed in concrete or asphalt surface by drilling hole 30mm dia to a depth of 60mm and bedded at complete as per specification.	200 no/.	—	—	—	200 no/.	
					@	429.84/no	85,968:00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	17) Providing and fixing of retroreflectorised cautionary mandatory sign as per IRC 67 made of high intensity grade sheeting vide clause 800 1.3 fixed over aluminium sheeting 1mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6mm firmly set complete as per the specification						
		40.00 Sq.				40 Sq.	
						@ Rs 3205.44/Sq	128218-00
	12) loading and unloading of stone boulder/stone aggregates / sand / kankar / moorum - placing in tippers at loading point from end bank						

Serial No.....

Name of work.....

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	drawing tarring
	qty of (1) &
	Certificate:
	(1) certifies that
	(11) certifies that

BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
o reflectored centering			
c 47 made of high			
vide clause 200			
ear steeting 1st			
with steel angl			
in KBCM Brinell			
e specification			
		40 no/.	
M 3205.44/no			128218=00
of stone boulde/stan			
/ masonry - placing			
in front end bay			

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 193322

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Guarding tearing cut couple of per spec						
	city of ① & ⑪ i.e		924.28 + 507300			5997.80 cum	
							4,02,897=00
			@ Rs 67.18/cum			total Rs 20,58,831=00	
							2055635 =
			Add 11% KRIDL charges			Rs 2,26,471=00	
							226123 =
	certificate: (I) certifies that work is done satisfactorily & sound					total Rs	22,85,306=00
	(II) certifies that all the debris have been cleared.						228,794=00

Assistant Executive Engineer, Kodigehalli Sub Division,